10/604,943

IDS Fill 10/03/2006 First Inventor August 28, 2003 Itzhak Bentwich

Art Unit

1631

Examiner Docket Number MILLER, MARINA I 050992.0300.CPUS07

U.S. Patent Documents					
Examiner Initials	Cite No#	Publication Number	Publication Date	Name of Patentee	
DS	А3	US-20020086356	07/04/02	Tuschl, Thomas et al.	
Foreign Patent	Docume	nts			
Examiner Initials	Cite No#	Publication Number	Publication Date	Name of Patentee	
DS	B2	WO 02/44321	06/06/02	TUSCHL, Thomas et al.	
DS	B4	WO 01/68836	09/20/01	BEACH, David	
DS	B5	WO 02/094185	11/28/02	BEIGELMAN, Leonid et al.	

·	/Dana Shin/		
xaminer Signature:		Date Considered:	10/23/2006

10/604,943

Filing Date 10/03/2006 August 28, 2003 First Inventor Itzhak Bentwich

Art Unit

1631

Examiner Docket Number MILLER, MARINA I 050992.0300.CPUS07

		Illiornation disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		·
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
DS	20	LEE, R. C., R. L. FEINBAUM and V. AMBROS. The C. elegans heterochronic gene lin-4 encodes small RNAs with antisense complementarity to lin-14 Cell Dec 3 1993 843-854 75
	30	WIGHTMAN, B., I. HA and G. RUVKUN. Posttranscriptional regulation of the heterochronic gene lin-14 by lin-4 mediates temporal pattern formation in C. elegans Cell Dec 3 1993 855-862 75
	40	GALLINARO, H., L. DOMENJOUD and M. JACOB. Structural study of the 5' end of a synthetic premessenger RNA from adenovirus. Evidence for a long-range exon-intron interaction. J Mol Biol. Jul. 15 1994 205-225 240
	50	LU, C. and R. BABLANIAN. Characterization of small nontranslated polyadenylylated RNAs in vaccinia virus-infected cells Proc Natl Acad Sci U S A Mar 5 1996 2037-2042 93
	60	CRAWFORD, E. D., E. P. DEANTONI, R. ETZIONI, V. C. SCHAEFER, R. M. OLSON and C. A. ROSS. Serum prostate-specific antigen and digital rectal examination for early detection of prostate cancer in a national community-based program. The Prostate Cancer Education Council Urology Jun 1996 863-869 47
	70	Engdahl HM, Hjalt TA, Wagner EG. A two unit antisense RNA cassette test system for silencing of target genes. Nucleic Acids Res. Aug 15 1997 3218-27 25
	80	SMITH, D. S., P. A. HUMPHREY and W. J. CATALONA. The early detection of prostate carcinoma with prostate specific antigen: the Washington University experience Cancer Nov 1 1997 1852-1856 80
	90	DSOUZA, M., N. LARSEN and R. OVERBEEK. Searching for patterns in genomic data. Trends Genet Dec. 1997, 497-498, 13
	100	MOSS, E. G., R. C. LEE and V. AMBROS. The cold shock domain protein LIN-28 controls developmental timing in C. elegans and is regulated by the lin-4 RNA Cell 1997 637 88
	110	FIRE, A., S. XU, M. K. MONTGOMERY, S. A. KOSTAS, S. E. DRIVER and C. C. MELLO. Potent and specific genetic interference by double-stranded RNA in Caenorhabditis elegans. Nature Feb 19 1998 806-811 391
	120	WATERHOUSE, P. M., M. W. GRAHAM and M. B. WANG. Virus resistance and gene silencing in plants can be induced by simultaneous expression of sense and antisense RNA Proc Natl Acad Sci U S A Nov 10 1998 13959-13964 95
	130	NGO, H., C. TSCHUDI, K. GULL and E. ULLU. Double-stranded RNA induces mRNA degradation in Trypanosoma brucei Proc Natl Acad Sci U S A Dec 8 1998 14687-14692 95
	140	VERMA, S. and F. ECKSTEIN. Modified oligonucleotides: synthesis and strategy for users Annu Rev Biochem ***No date in Pubmed*** 1998 99-134 67
	150	WUCHTY, S., W. FONTANA, I. L. HOFACKER and P. SCHUSTER. Complete suboptimal folding of RNA and the stability of secondary structures Biopolymers Feb. 1999 145-165 49
	160	MATHEWS, D. H., J. SABINA, M. ZUKER and D. H. TURNER. Expanded sequence dependence of thermodynamic parameters improves prediction of RNA secondary structure. J Mol Biol May 21 1999 911-940 288
	170	CHANG, P. L. Encapsulation for somatic gene therapy Ann N Y Acad Sci Jun 18 1999 146-158 875
	180	ZHANG, M. Q. Large-scale gene expression data analysis: a new challenge to computational biologists Genome Res Aug 1999 681-688 9
	190	GRISARU, D., M. STERNFELD, A. ELDOR, D. GLICK and H. SOREQ. Structural roles of acetylcholinesterase variants in biology and pathology Eur J Biochem Sep 1999 672-686 264
DS	. 200	FIRE, A. RNA-triggered gene silencing Trends Genet Sep 1999 358-363 15

Examiner Signature:	Date Considered:	10/23/2006
---------------------	------------------	------------

Filing Date First Inventor

August 28, 2003 Itzhak Bentwich

10/604,943

Art Unit

1631

Examiner Docket Number

MILLER, MARINA I 050992.0300.CPUS07

		Information Disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	210	TABARA, H., M. SARKISSIAN, W. G. KELLY, J. FLEENOR, A. GRISHOK, L. TIMMONS, A. FIRE and
DS		C. C. MELLO. The rde-1 gene, RNA interference, and transposon silencing in C. elegans Cell Oct 15
		1999 123-132 99
	220	RYO, A., Y. SUZUKI, K. ICHIYAMA, T. WAKATSUKI, N. KONDOH, A. HADA, M. YAMAMOTO and N.
		YAMAMOTO. Serial analysis of gene expression in HIV-1-infected T cell lines FEBS Lett Nov 26
i i		1999 182-186 462
	230	OLSEN, P. H. and V. AMBROS. The lin-4 regulatory RNA controls developmental timing in
		Caenorhabditis elegans by blocking LIN-14 protein synthesis after the initiation of translation Dev Biol
		Dec 15 1999 671-680 216
	240	TUSCHL, T., P. D. ZAMORE, R. LEHMANN, D. P. BARTEL and P. A. SHARP. Targeted mRNA
		degradation by double-stranded RNA in vitro Genes Dev Dec 15 1999 3191-3197 13
	260	REINHART, B. J., F. J. SLACK, M. BASSON, A. E. PASQUINELLI, J. C. BETTINGER, A. E. ROUGVIE
		H. R. HORVITZ and G. RUVKUN. The 21-nucleotide let-7 RNA regulates developmental timing in
		Caenorhabditis elegans Nature Feb 24 2000 901-906 403
	270	PITT, J. N., J. A. SCHISA and J. R. PRIESS. P granules in the germ cells of Caenorhabditis elegans
ı		adults are associated with clusters of nuclear pores and contain RNA Dev Biol Mar 15 2000 315-333
ļ		219
	280	HAMMOND, S. M., E. BERNSTEIN, D. BEACH and G. J. HANNON. An RNA-directed nuclease
		mediates post-transcriptional gene silencing in Drosophila cells Nature Mar 16 2000 293-296 404
		]
	300	SLACK, F. J., M. BASSON, Z. LIU, V. AMBROS, H. R. HORVITZ and G. RUVKUN. The lin-41 RBCC
		gene acts in the C. elegans heterochronic pathway between the let-7 regulatory RNA and the LIN-29
		transcription factor Mol Cell Apr 2000 659-669 5
	310	FORTIER, E. and J. M. BELOTE. Temperature-dependent gene silencing by an expressed inverted
		repeat in Drosophila Genesis Apr 2000 240-244 26
	320	MOURRAIN, P., C. BECLIN, T. ELMAYAN, F. FEUERBACH, C. GODON, J. B. MOREL, D. JOUETTE,
l		A. M. LACOMBE, S. NIKIC, N. PICAULT, K. REMOUE, M. SANIAL, T. A. VO and H. VAUCHERET.
l l		Arabidopsis SGS2 and SGS3 genes are required for posttranscriptional gene silencing and natural virus
ĺ		resistance Cell May 26 2000 533-542 101
	330	SIJEN, T. and J. M. KOOTER. Post-transcriptional gene-silencing: RNAs on the attack or on the
		defense? Bioessays Jun 2000 520-531 22
	340	BRENNER, S., M. JOHNSON, J. BRIDGHAM, G. GOLDA, D. H. LLOYD, D. JOHNSON, S. LUO, S.
1		MCCURDY, M. FOY, M. EWAN, R. ROTH, D. GEORGE, S. ELETR, G. ALBRECHT, E. VERMAAS, S.
i i		R. WILLIAMS, K. MOON, T. BURCHAM, M. PALLAS, R. B. DUBRIDGE, J. KIRCHNER, K. FEARON, J.
		MAO and K. CORCORAN. Gene expression analysis by massively parallel signature sequencing
		(MPSS) on microbead arrays Nat Biotechnol Jun 2000 630-634 18
	350	RYO, A., Y. SUZUKI, M. ARAI, N. KONDOH, T. WAKATSUKI, A. HADA, M. SHUDA, K. TANAKA, C.
		SATO, M. YAMAMOTO and N. YAMAMOTO. Identification and characterization of differentially
		expressed mRNAs in HIV type 1-infected human T cells AIDS Res Hum Retroviruses Jul 1 2000 99
	,	1005 16
	360	NILSSON, M., G. BARBANY, D. O. ANTSON, K. GERTOW and U. LANDEGREN. Enhanced detection
		and distinction of RNA by enzymatic probe ligation Nat Biotechnol Jul 2000 791-793 18
	370	KENT, W. J. and A. M. ZAHLER. Conservation, regulation, synteny, and introns in a large-scale C.
	_	briggsae-C. elegans genomic alignment Genome Res Aug 2000 1115-1125 10
Da	380	KENNERDELL, J. R. and R. W. CARTHEW. Heritable gene silencing in Drosophila using double-
DS		stranded RNA Nat Biotechnol Aug 2000 896-898 18
	minor Cianat	

Examiner Signature: /Dana Shin/	Date Considered:	10/23/2006
---------------------------------	------------------	------------

10/604,943 August 28, 2003

Filing Date First Inventor

Itzhak Bentwich

Art Unit

1631

Examiner
Docket Number

MILLER, MARINA I 050992.0300.CPUS07

,		Information disclosure statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	390	SMITH, N. A., S. P. SINGH, M. B. WANG, P. A. STOUTJESDIJK, A. G. GREEN and P. M.
DS		WATERHOUSE. Total silencing by intron-spliced hairpin RNAs Nature Sep 21 2000 319-320 407
•		
	410	VOINNET, O., C. LEDERER and D. C. BAULCOMBE. A viral movement protein prevents spread of the
		gene silencing signal in Nicotiana benthamiana Cell Sep 29 2000 157-167 103
	420	Mette MF, Aufsatz W, van der Winden J, Matzke MA, Matzke AJ. Transcriptional silencing and promoter
	100	methylation triggered by double-stranded RNA. EMBO J. Oct 2 2000 5194-201 19
	430	YANG, D., H. LU and J. W. ERICKSON. Evidence that processed small dsRNAs may mediate
		sequence-specific mRNA degradation during RNAi in Drosophila embryos Curr Biol Oct 5 2000 1191
	440	1200 10 ANANDALAKSHMI, R., R. MARATHE, X. GE, J. M. HERR, JR., C. MAU, A. MALLORY, G. PRUSS, L.
	440	BOWMAN and V. B. VANCE. A calmodulin-related protein that suppresses posttranscriptional gene
		silencing in plants Science Oct 6 2000 142-144 290
	450	FAGARD, M., S. BOUTET, J. B. MOREL, C. BELLINI and H. VAUCHERET. AGO1, QDE-2, and RDE-1
	450	are related proteins required for post-transcriptional gene silencing in plants, quelling in fungi, and RNA
		interference in animals Proc Natl Acad Sci U S A Oct 10 2000 11650-11654 97
		The control of the co
<del>  </del>	460	PASQUINELLI, A. E., B. J. REINHART, F. SLACK, M. Q. MARTINDALE, M. I. KURODA, B. MALLER,
	100	D. C. HAYWARD, E. E. BALL, B. DEGNAN, P. MULLER, J. SPRING, A. SRINIVASAN, M. FISHMAN, J.
		FINNERTY, J. CORBO, M. LEVINE, P. LEAHY, E. DAVIDSON and G. RUVKUN. Conservation of the
		sequence and temporal expression of let-7 heterochronic regulatory RNA Nature Nov 2 2000 86-89
		408
	470	LLAVE, C., K. D. KASSCHAU and J. C. CARRINGTON. Virus-encoded suppressor of
	.,, -	posttranscriptional gene silencing targets a maintenance step in the silencing pathway Proc Natl Acad
		Sci U S A Nov 21 2000 13401-13406 9
	480	COGONI, C. and G. MACINO. Post-transcriptional gene silencing across kingdoms. Curr Opin Genet
		Dev Dec 2000 638-643 10
	500	ELBASHIR, S. M., W. LENDECKEL and T. TUSCHL. RNA interference is mediated by 21- and 22-
		nucleotide RNAs Genes Dev Jan 15 2001 188-200 15
	510	BERNSTEIN, E., A. A. CAUDY, S. M. HAMMOND and G. J. HANNON. Role for a bidentate
		ribonuclease in the initiation step of RNA interference Nature Jan 18 2001 363-366 409
	520	VAUCHERET, H. and M. FAGARD. Transcriptional gene silencing in plants: targets, inducers and
		regulators Trends Genet Jan 2001 29-35 17
	540	THOMAS, C. L., L. JONES, D. C. BAULCOMBE and A. J. MAULE. Size constraints for targeting post-
		transcriptional gene silencing and for RNA-directed methylation in Nicotiana benthamiana using a potato
		virus X vector Plant J Feb 2001 417-425 25
	550	GALYAM, N., D. GRISARU, M. GRIFMAN, N. MELAMED-BOOK, F. ECKSTEIN, S. SEIDMAN, A.
		ELDOR and H. SOREQ. Complex host cell responses to antisense suppression of ACHE gene
		expression Antisense Nucleic Acid Drug Dev Feb 2001 51-57 11
	560	SHARP, P. A. RNA interference2001 Genes Dev Mar 1 2001 485-490 15
	570	MALLORY, A. C., L. ELY, T. H. SMITH, R. MARATHE, R. ANANDALAKSHMI, M. FAGARD, H.
		VAUCHERET, G. PRUSS, L. BOWMAN and V. B. VANCE. HC-Pro suppression of transgene silencing
		eliminates the small RNAs but not transgene methylation or the mobile signal Plant Cell Mar 2001
<b>-</b>	500	571-583 13
	590	MATZKE, M. A., A. J. MATZKE, G. J. PRUSS and V. B. VANCE. RNA-based silencing strategies in
<u> </u>		plants Curr Opin Genet Dev Apr 2001 221-227 11 SCHISA, J. A., J. N. PITT and J. R. PRIESS. Analysis of RNA associated with P granules in germ cells
DS	600	
L	l	of C. elegans adults Development Apr 2001 1287-1298 128
Eva	minor Signa	ture: /Dana Shin/ Date Considered: 10/23/2006

Examiner Signature:	/Dana Shin/	Date Considered:	10/23/2006	

10/604,943 August 28, 2003

Filing Date First Inventor

Itzhak Bentwich

Art Unit

1631

Examiner
Docket Number

MILLER, MARINA I 050992.0300.CPUS07

### **Information Disclosure Statement**

		information disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	610	DI SERIO, F., H. SCHOB, A. IGLESIAS, C. TARINA, E. BOULDOIRES and F. MEINS, JR. Sense- and
DS		antisense-mediated gene silencing in tobacco is inhibited by the same viral suppressors and is
25		associated with accumulation of small RNAs Proc Natl Acad Sci U S A May 22 2001 6506-6510 98
1		
	620	ELBASHIR, S. M., J. HARBORTH, W. LENDECKEL, A. YALCIN, K. WEBER and T. TUSCHL.
		Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells Nature May
		24 2001 494-498 411
	630	PICCIN, A., A. SALAMEH, C. BENNA, F. SANDRELLI, G. MAZZOTTA, M. ZORDAN, E. ROSATO, C.
		P. KYRIACOU and R. COSTA. Efficient and heritable functional knock-out of an adult phenotype in
		Drosophila using a GAL4-driven hairpin RNA incorporating a heterologous spacer Nucleic Acids Res
		Jun 15 2001 E55-55 29
	640	VANCE, V. and H. VAUCHERET. RNA silencing in plantsdefense and counterdefense Science Jun
		22 2001 2277-2280 292
	650	ARGAMAN, L., R. HERSHBERG, J. VOGEL, G. BEJERANO, E. G. WAGNER, H. MARGALIT and S.
		ALTUVIA. Novel small RNA-encoding genes in the intergenic regions of Escherichia coli Curr Biol Jun
	•	26 2001 941-950 11
	660	GRISHOK, A., A. E. PASQUINELLI, D. CONTE, N. LI, S. PARRISH, I. HA, D. L. BAILLIE, A. FIRE, G.
l		RUVKUN and C. C. MELLO. Genes and mechanisms related to RNA interference regulate expression
1		of the small temporal RNAs that control C. elegans developmental timing Cell Jul 13 2001 23-34
		106
ı	670	HUTVAGNER, G., J. MCLACHLAN, A. E. PASQUINELLI, E. BALINT, T. TUSCHL and P. D. ZAMORE.
		A cellular function for the RNA-interference enzyme Dicer in the maturation of the let-7 small temporal
		RNA Science Aug 3 2001 834-838 293
	680	HAMMOND, S. M., S. BOETTCHER, A. A. CAUDY, R. KOBAYASHI and G. J. HANNON. Argonaute2,
		a link between genetic and biochemical analyses of RNAi Science Aug 10 2001 1146-1150 293
	700	DAMPONERET IN C. RECURN LAN EACARD, Restaurantian Language in plants, I Call So
	700	VAUCHERET, H., C. BECLIN and M. FAGARD. Post-transcriptional gene silencing in plants. J Cell Sc
	740	Sep 2001 3083-3091 114 WESLEY, S. V., C. A. HELLIWELL, N. A. SMITH, M. B. WANG, D. T. ROUSE, Q. LIU, P. S.
	710	GOODING, S. P. SINGH, D. ABBOTT, P. A. STOUTJESDIJK, S. P. ROBINSON, A. P. GLEAVE, A. G.
•		GREEN and P. M. WATERHOUSE. Construct design for efficient, effective and high-throughput gene
		silencing in plants Plant J Sep 2001 581-590 27
	720	MATTICK, J. S. and M. J. GAGEN. The evolution of controlled multitasked gene networks: the role of
	/20	introns and other noncoding RNAs in the development of complex organisms. Mol Biol Evol. Sep. 200
		1611-1630 18
	730	CARTER, R. J., I. DUBCHAK and S. R. HOLBROOK. A computational approach to identify genes for
	/30	functional RNAs in genomic sequences Nucleic Acids Res Oct 1 2001 3928-3938 29
		indictional ritary in genomic sequences readicio riolas ries con ricination con contraction and contraction contractions are contractional ritary contractions.
	740	MOSS, E. G. RNA interference: it's a small RNA world Curr Biol Oct 2 2001 R772-775 11
	750	KETTING, R. F., S. E. FISCHER, E. BERNSTEIN, T. SIJEN, G. J. HANNON and R. H. PLASTERK.
	''	Dicer functions in RNA interference and in synthesis of small RNA involved in developmental timing in
		C. elegans Genes Dev Oct 15 2001 2654-2659 15
	760	RUVKUN, G. Molecular biology. Glimpses of a tiny RNA world Science Oct 26 2001 797-799 294
	770	LEE, R. C. and V. AMBROS. An extensive class of small RNAs in Caenorhabditis elegans. Science
		Oct 26 2001 862-864 294
<del></del>	780	LAU, N. C., L. P. LIM, E. G. WEINSTEIN and D. P. BARTEL. An abundant class of tiny RNAs with
DS		probable regulatory roles in Caenorhabditis elegans Science Oct 26 2001 858-862 294
		Para Chin/ Data Considered: 10/23/2006

Examiner Signature: /Dana Shin/ Date Considered: 10/23/2006

10/604,943 August 28, 2003

Filing Date First Inventor

Itzhak Bentwich

Art Unit Examiner 1631

Docket Number

MILLER, MARINA I 050992.0300.CPUS07

		NON PATENT LITERATURE DOCUMENTS
Examiner		NON PATENT LITERATURE DOCUMENTS
	Cito No#	Authors, Title, Journal, Date, Year, Pages, Volume
Initials	790	LAGOS-QUINTANA, M., R. RAUHUT, W. LENDECKEL and T. TUSCHL. Identification of novel genes
DS	790	coding for small expressed RNAs Science Oct 26 2001 853-858 294
	820	ITAYA, A., A. FOLIMONOV, Y. MATSUDA, R. S. NELSON and B. DING. Potato spindle tuber viroid as
	020	inducer of RNA silencing in infected tomato Mol Plant Microbe Interact Nov 2001 1332-1334 14
		Inducer of the A Sherioling in invocate territate with the transfer of the A Sherioling in invocate territate with the transfer of the A Sherioling in invocate territate with the transfer of the A Sherioling in
	830	MATTICK, J. S. Non-coding RNAs: the architects of eukaryotic complexity EMBO Rep Nov 2001
		986-991 2
	840	ELBASHIR, S. M., J. MARTINEZ, A. PATKANIOWSKA, W. LENDECKEL and T. TUSCHL. Functional
		anatomy of siRNAs for mediating efficient RNAi in Drosophila melanogaster embryo lysate Embo J Dec
		3 2001 6877-6888 20
	850	AMBROS, V. microRNAs: tiny regulators with great potential Cell Dec 28 2001 823-826 107
	860	BLASZCZYK, J., J. E. TROPEA, M. BUBUNENKO, K. M. ROUTZAHN, D. S. WAUGH, D. L. COURT
		and X. JI. Crystallographic and modeling studies of RNase III suggest a mechanism for double-
		stranded RNA cleavage Structure Dec 2001 1225-1236 9
	870	CRETE, P., S. LEUENBERGER, V. A. IGLESIAS, V. SUAREZ, H. SCHOB, H. HOLTORF, S. VAN
		EEDEN and F. MEINS. Graft transmission of induced and spontaneous post-transcriptional silencing of
		chitinase genes Plant J Dec 2001 493-501 28
	880	SMALLRIDGE, R. A small fortune Nat Rev Mol Cell Biol Dec 2001 867 2
	890	EDDY, S. R. Non-coding RNA genes and the modern RNA world Nat Rev Genet Dec 2001 919-929
	000	LU, C. M. miRNA bead detection Genaco Biomedical Products PHS 398 2001 1
	900	MATZKE, M., A. J. MATZKE and J. M. KOOTER. RNA: guiding gene silencing 2001 1080 293
	910	INIATZNE, IVI., A. J. MATZNE and J. M. NOOTEN. HIVA. guiding gene shending 2001 1000 230
<b></b>	920	GROSSHANS, H. and F. J. SLACK. Micro-RNAs: small is plentiful J Cell Biol Jan 7 2002 17-21 156
	020	anioson muo, mi ana mi anio mi
	930	MESHORER, E., C. ERB, R. GAZIT, L. PAVLOVSKY, D. KAUFER, A. FRIEDMAN, D. GLICK, N. BEN-
		ARIE and H. SOREQ. Alternative splicing and neuritic mRNA translocation under long-term neuronal
		hypersensitivity Science Jan 18 2002 508-512 295
	940	PADDISON, P. J., A. A. CAUDY and G. J. HANNON. Stable suppression of gene expression by RNAi
		in mammalian cells Proc Natl Acad Sci U S A Feb 5 2002 1443-1448 99
	950	MOSS, E. G. MicroRNAs: hidden in the genome Curr Biol Feb 19 2002 R138-140 12
	960	BANERJEE, D. and F. SLACK. Control of developmental timing by small temporal RNAs: a paradigm
		for RNA-mediated regulation of gene expression Bioessays Feb 2002 119-129 24
	970	ELBASHIR, S. M., J. HARBORTH, K. WEBER and T. TUSCHL. Analysis of gene function in somatic
<b>  </b>		mammalian cells using small interfering RNAs Methods Feb 2002 199-213 26
	980	HAN, Y. and D. GRIERSON. Relationship between small antisense RNAs and aberrant RNAs
		associated with sense transgene mediated gene silencing in tomato Plant J Feb 2002 509-519 29
	990	NICHOLSON, R. H. and A. W. NICHOLSON. Molecular characterization of a mouse cDNA encoding
	390	Dicer, a ribonuclease III ortholog involved in RNA interference Mamm Genome Feb 2002 67-73 13
		Dicer, a riboridolease in officiolog involved in than interference infamini denome 1 ob 2002 07-70 10
<del></del>	1000	PUERTA-FERNANDEZ, E., A. BARROSO-DELJESUS and A. BERZAL-HERRANZ. Anchoring hairpin
		ribozymes to long target RNAs by loop-loop RNA interactions. Antisense Nucleic Acid Drug Dev. Feb.
		2002 1-9 12
	1010	GIORDANO, E., R. RENDINA, I. PELUSO and M. FURIA. RNAi triggered by symmetrically transcribed
DS		transgenes in Drosophila melanogaster Genetics Feb 2002 637-648 160
	<u></u>	

/Dana Shin/		10/23/2006
Examiner Signature:	Date Considered:	

Filing Date

10/604,943 August 28, 2003

First Inventor

Itzhak Bentwich 1631

Examiner Docket Number

Art Unit

MILLER, MARINA I 050992.0300.CPUS07

Examiner Initials  Cite No# Authors, Title, Journal, Date, Year, Pages, Volume  1020 MARTENS, H., J. NOVOTNY, J. OBERSTRASS, T. L. STECK, P. POSTLETHWAIT an RNAi in Dictyostelium: the role of RNA-directed RNA polymerases and double-stranded for Cell Feb 2002 445-453 13  1030 MOURELATOS, Z., J. DOSTIE, S. PAUSHKIN, A. SHARMA, B. CHARROUX, L. ABEL, S. RAPPSILBER, M. MANN and G. DREYFUSS. miRNPs: a novel class of ribonucleoprote numerous microRNAs Genes Dev Mar 15 2002 720-728 16  1040 SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorh heterochronic gene lin-28 after translation initiation. Dev Biol Mar 15 2002 215-225 24  1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-translation gene silencing and virus resistance. Plant Cell Mar. 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	RNase Mol Biol J. eins containing nabditis elegans 43 F. PROUX and anscriptional
DS  MARTENS, H., J. NOVOTNY, J. OBERSTRASS, T. L. STECK, P. POSTLETHWAIT an RNAi in Dictyostelium: the role of RNA-directed RNA polymerases and double-stranded for Cell Feb 2002 445-453 13  1030 MOURELATOS, Z., J. DOSTIE, S. PAUSHKIN, A. SHARMA, B. CHARROUX, L. ABEL, RAPPSILBER, M. MANN and G. DREYFUSS. miRNPs: a novel class of ribonucleoprote numerous microRNAs Genes Dev Mar 15 2002 720-728 16  1040 SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorh heterochronic gene lin-28 after translation initiation. Dev Biol. Mar 15 2002 215-225 24  1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tragene silencing and virus resistance. Plant Cell. Mar. 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	RNase Mol Biol J. eins containing nabditis elegans 43 F. PROUX and anscriptional
DS  MARTENS, H., J. NOVOTNY, J. OBERSTRASS, T. L. STECK, P. POSTLETHWAIT an RNAi in Dictyostelium: the role of RNA-directed RNA polymerases and double-stranded for Cell Feb 2002 445-453 13  1030 MOURELATOS, Z., J. DOSTIE, S. PAUSHKIN, A. SHARMA, B. CHARROUX, L. ABEL, RAPPSILBER, M. MANN and G. DREYFUSS. miRNPs: a novel class of ribonucleoprote numerous microRNAs Genes Dev Mar 15 2002 720-728 16  1040 SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorh heterochronic gene lin-28 after translation initiation. Dev Biol. Mar 15 2002 215-225 24  1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tragene silencing and virus resistance. Plant Cell. Mar. 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	RNase Mol Biol J. eins containing nabditis elegans 43 F. PROUX and anscriptional
Cell Feb 2002 445-453 13  1030 MOURELATOS, Z., J. DOSTIE, S. PAUSHKIN, A. SHARMA, B. CHARROUX, L. ABEL, RAPPSILBER, M. MANN and G. DREYFUSS. miRNPs: a novel class of ribonucleoprote numerous microRNAs Genes Dev Mar 15 2002 720-728 16  1040 SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorh heterochronic gene lin-28 after translation initiation. Dev Biol Mar 15 2002 215-225 24  1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tragene silencing and virus resistance. Plant Cell Mar 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	J. eins containing nabditis elegans 43 F. PROUX and anscriptional
MOURELATOS, Z., J. DOSTIE, S. PAUSHKIN, A. SHARMA, B. CHARROUX, L. ABEL, G. RAPPSILBER, M. MANN and G. DREYFUSS. miRNPs: a novel class of ribonucleoprote numerous microRNAs. Genes Dev. Mar. 15 2002 720-728 16  1040 SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorh heterochronic gene lin-28 after translation initiation. Dev. Biol. Mar. 15 2002 215-225 24  1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tragene silencing and virus resistance. Plant Cell. Mar. 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	eins containing labditis elegans 43 F. PROUX and anscriptional
RAPPSILBER, M. MANN and G. DREYFUSS. miRNPs: a novel class of ribonucleoprote numerous microRNAs. Genes Dev. Mar. 15 2002 720-728 16  1040 SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorh heterochronic gene lin-28 after translation initiation. Dev. Biol. Mar. 15 2002 215-225 24  1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tragene silencing and virus resistance. Plant Cell. Mar. 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	eins containing labditis elegans 43 F. PROUX and anscriptional
RAPPSILBER, M. MANN and G. DREYFUSS. miRNPs: a novel class of ribonucleoprote numerous microRNAs. Genes Dev. Mar. 15 2002 720-728 16  1040 SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorh heterochronic gene lin-28 after translation initiation. Dev. Biol. Mar. 15 2002 215-225 24  1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tragene silencing and virus resistance. Plant Cell. Mar. 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	eins containing labditis elegans 43 F. PROUX and anscriptional
1040 SEGGERSON, K., L. TANG and E. G. MOSS. Two genetic circuits repress the Caenorh heterochronic gene lin-28 after translation initiation. Dev Biol. Mar. 15. 2002. 215-225. 24  1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-translation gene silencing and virus resistance. Plant Cell. Mar. 2002. 629-639. 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	F. PROUX and anscriptional
heterochronic gene lin-28 after translation initiation. Dev Biol. Mar. 15 2002 215-225 24  1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tragene silencing and virus resistance. Plant Cell. Mar. 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	F. PROUX and anscriptional
1050 MOREL, J. B., C. GODON, P. MOURRAIN, C. BECLIN, S. BOUTET, F. FEUERBACH, F. H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tragene silencing and virus resistance. Plant Cell. Mar. 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F.	F. PROUX and anscriptional
H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tra gene silencing and virus resistance. Plant Cell. Mar. 2002 629-639 14 1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F	anscriptional
H. VAUCHERET. Fertile hypomorphic ARGONAUTE (ago1) mutants impaired in post-tra gene silencing and virus resistance. Plant Cell. Mar. 2002 629-639 14 1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F	anscriptional
gene silencing and virus resistance Plant Cell Mar 2002 629-639 14  1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F	
1060 CATALANOTTO, C., G. AZZALIN, G. MACINO and C. COGONI. Involvement of small F	
	RNAs and role
of the qde genes in the gene silencing pathway in Neurospora Genes Dev Apr 1 2002	790-795 16
1070 BOUTLA, A., K. KALANTIDIS, N. TAVERNARAKIS, M. TSAGRIS and M. TABLER. Indu	
interference in Caenorhabditis elegans by RNAs derived from plants exhibiting post-trans	scriptional gene
silencing Nucleic Acids Res Apr 1 2002 1688-1694 30	
1080 PASQUINELLI, A. E. and G. RUVKUN. Control of developmental timing by micrornas an	nd their targets
Annu Rev Cell Dev Biol Epub 2002 Apr 2. 2002 495-513 18	
1090 PADDISON, P. J., A. A. CAUDY, E. BERNSTEIN, G. J. HANNON and D. S. CONKLIN.	
RNAs (shRNAs) induce sequence-specific silencing in mammalian cells. Genes Dev. Apr	r 15 2002
948-958 16	·
1100 BECLIN, C., S. BOUTET, P. WATERHOUSE and H. VAUCHERET. A branched pathway	y for transgene-
induced RNA silencing in plants Curr Biol Apr 16 2002 684-688 12	
1110 EDDY, S. R. Computational genomics of noncoding RNA genes Cell Apr 19 2002 13	17-140 109
1120 LAGOS-QUINTANA, M., R. RAUHUT, A. YALCIN, J. MEYER, W. LENDECKEL and T. T	USCHL.
Identification of tissue-specific microRNAs from mouse Curr Biol Apr 30 2002 735-73	9 12
1130 KENT, W. J. BLATthe BLAST-like alignment tool Genome Res Apr 2002 656-664	
1140 HUTVAGNER, G. and P. D. ZAMORE. RNAi: nature abhors a double-strand Curr Opin	Genet Dev
Apr 2002 225-232 12	
1150 NILSSON, M., J. BANER, M. MENDEL-HARTVIG, F. DAHL, D. O. ANTSON, M. GULLBE	ERG and U.
LANDEGREN. Making ends meet in genetic analysis using padlock probes. Hum Mutat	Apr 2002
410-415 19	
1160 PASQUINELLI, A. E. MicroRNAs: deviants no longer Trends Genet Apr 2002 171-1	73 18
1170 LAI, E. C. Micro RNAs are complementary to 3' UTR sequence motifs that mediate negative sequence motifs are negative sequence motifications.	ative post-
transcriptional regulation Nat Genet Apr 2002 363-364 30	
1180 SCHWARZ, D. S. and P. D. ZAMORE. Why do miRNAs live in the miRNP? Genes Dev	v May 1 2002
1025-1031 16	
1190 BRANTL, S. Antisense-RNA regulation and RNA interference Biochim Biophys Acta M	iay 3 2002 15
25 1575	
1200 LI, H., W. X. LI and S. W. DING. Induction and suppression of RNA silencing by an anim	nal virus
Science May 17 2002 1319-1321 296	
DS 1210 ZAMORE, P. D. Ancient pathways programmed by small RNAs Science May 17 2002	2 1265-1269
296	i

Examiner Signature:	/Dana Shin/	Date Considered:	10/23/2006	
zkannio olgitalare.	•	Date Considered.		

10/604,943 August 28, 2003 Itzhak Bentwich

Filing Date First Inventor Art Unit

1631

Examiner Docket Number

MILLER, MARINA I 050992.0300.CPUS07

		information disclosure Statement
		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
	1220	CHEN, S., E. A. LESNIK, T. A. HALL, R. SAMPATH, R. H. GRIFFEY, D. J. ECKER and L. B. BLYN. A
DS		bioinformatics based approach to discover small RNA genes in the Escherichia coli genome
		Biosystems Mar-May 2002 157-177 65
	1230	LEE, N. S., T. DOHJIMA, G. BAUER, H. LI, M. J. LI, A. EHSANI, P. SALVATERRA and J. ROSSI.
		Expression of small interfering RNAs targeted against HIV-1 rev transcripts in human cells Nat
		Biotechnol May 2002 500-505 20
,	1240	DRAGHICI, S. Statistical intelligence: effective analysis of high-density microarray data Drug Discov
		Today Jun 1 2002 S55-63 7
	1250	SILHAVY, D., A. MOLNAR, A. LUCIOLI, G. SZITTYA, C. HORNYIK, M. TAVAZZA and J. BURGYAN.
1		viral protein suppresses RNA silencing and binds silencing-generated, 21- to 25-nucleotide double-
		stranded RNAs Embo J Jun 17 2002 3070-3080 21
ı	1260	AYASH-RASHKOVSKY, M., Z. WEISMAN, J. DIVELEY, R. B. MOSS, Z. BENTWICH and G. BORKOW
		Generation of Th1 immune responses to inactivated, gp120-depleted HIV-1 in mice with a dominant Th2
		biased immune profile via immunostimulatory [correction of imunostimulatory] oligonucleotides
		relevance to AIDS vaccines in developing countries Vaccine Jun 21 2002 2684-2692 20
	1270	TABARA, H., E. YIGIT, H. SIOMI and C. C. MELLO. The dsRNA binding protein RDE-4 interacts with
	12/0	RDE-1, DCR-1, and a DExH-box helicase to direct RNAi in C. elegans Cell Jun 28 2002 861-871
		109
	1280	BETTENCOURT, R., O. TERENIUS and I. FAYE. Hemolin gene silencing by ds-RNA injected into
ľ	1200	Cecropia pupae is lethal to next generation embryos Insect Mol Biol Jun 2002 267-271 11
		generalis is non generalis, is a massive and a second seco
	1290	HOOPER, N. M. and A. J. TURNER. The search for alpha-secretase and its potential as a therapeutic
		approach to Alzheimer's disease Curr Med Chem Jun 2002 1107-1119 9
	1300	LIU, Q., S. SINGH and A. GREEN. High-oleic and high-stearic cottonseed oils: nutritionally improved
		cooking oils developed using gene silencing J Am Coll Nutr Jun 2002 205S-211S 21
	1310	ZENG, Y., E. J. WAGNER and B. R. CULLEN. Both natural and designed micro RNAs can inhibit the
i	,,,,	expression of cognate mRNAs when expressed in human cells Mol Cell Jun 2002 1327-1333 9
	1320	MCMANUS, M. T., C. P. PETERSEN, B. B. HAINES, J. CHEN and P. A. SHARP. Gene silencing using
		micro-RNA designed hairpins Rna Jun 2002 842-850 8
	1330	REINHART, B. J., E. G. WEINSTEIN, M. W. RHOADES, B. BARTEL and D. P. BARTEL. MicroRNAs in
		plants Genes Dev Jul 1 2002 1616-1626 16
	1340	MCCAFFREY, A. P., L. MEUSE, T. T. PHAM, D. S. CONKLIN, G. J. HANNON and M. A. KAY. RNA
		interference in adult mice Nature Jul 4 2002 38-39 418
	1350	HANNON, G. J. RNA interference Nature Jul 11 2002 244-251 418
	1360	DENNIS, C. The brave new world of RNA Nature Jul 11 2002 122-124 418
	1370	JACQUE, J. M., K. TRIQUES and M. STEVENSON. Modulation of HIV-1 replication by RNA
	4005	interference Nature Jul 25 2002 435-438 418
	1380	CULLEN, B. R. RNA interference: antiviral defense and genetic tool Nat Immunol Jul 2002 597-599
	1200	MA, C. and A. MITRA. Intrinsic direct repeats generate consistent post-transcriptional gene silencing in
	1390	tobacco Plant J Jul 2002 37-49 31
<del></del>	1400	NOVINA, C. D., M. F. MURRAY, D. M. DYKXHOORN, P. J. BERESFORD, J. RIESS, S. K. LEE, R. G.
	1400	COLLMAN, J. LIEBERMAN, P. SHANKAR and P. A. SHARP. siRNA-directed inhibition of HIV-1
DS		infection Nat Med Jul 2002 681-686 8
	L	Innection Nationed July 2002 001-000 0

Examiner Signature:	/Dana	Shin/	Date Considered:	10/23	3/2006	

10/604,943 Filing Date August 28, 2003 Itzhak Bentwich First Inventor

Art Unit

1631.

Examiner Docket Number MILLER, MARINA I 050992.0300.CPUS07

Examiner Initials Cite No# Authors, Title, Journal, Date, Year, Pages, Volume	
Initials Cite No# Authors, Title, Journal, Date, Year, Pages, Volume	
DS 1410 POMERANTZ, R. J. RNA interference meets HIV-1: will silence be golden? Nat Med Ju	1 2002 659-
	5 1-1
1420 ZENG, Y. and B. R. CULLEN. RNA interference in human cells is restricted to the cytopla 2002 855-860 8	sm Kna Jui
1430 XIANG, C. C., O. A. KOZHICH, M. CHEN, J. M. INMAN, Q. N. PHAN, Y. CHEN and M. J.	
BROWNSTEIN. Amine-modified random primers to label probes for DNA microarrays. Na	
Jul 2002 738-742 20	
1440 LLAVE, C., K. D. KASSCHAU, M. A. RECTOR and J. C. CARRINGTON. Endogenous an	d silencing-
associated small RNAs in plants Plant Cell Jul 2002 1605-1619 14	
1450 RHOADES, M. W., B. J. REINHART, L. P. LIM, C. B. BURGE, B. BARTEL and D. P. BAR	TEL.
Prediction of plant microRNA targets Cell Aug 23 2002 513-520 110	
1460 HIPFNER, D. R., K. WEIGMANN and S. M. COHEN. The bantam gene regulates Drosop	hila growth
Genetics Aug 2002 1527-1537 161	
1470 LIU, Q., S. P. SINGH and A. G. GREEN. High-stearic and High-oleic cottonseed oils prod	
hairpin RNA-mediated post-transcriptional gene silencing Plant Physiol Aug 2002 1732	2-1743 129
1480 STOUTJESDIJK, P. A., S. P. SINGH, Q. LIU, C. J. HURLSTONE, P. A. WATERHOUSE	and A. G.
GREEN. hpRNA-mediated targeting of the Arabidopsis FAD2 gene gives highly efficient a	
silencing Plant Physiol Aug 2002 1723-1731 129	
1490 SUZUMA, S., S. ASARI, K. BUNAI, K. YOSHINO, Y. ANDO, H. KAKESHITA, M. FUJITA,	K.
NAKAMURA and K. YAMANE. Identification and characterization of novel small RNAs in	
intergenic region of the Bacillus subtilis genome Microbiology Aug 2002 2591-2598 14	18
THE STATE OF THE S	DI INIEL
1500 MILLIGAN, L., T. FORNE, E. ANTOINE, M. WEBER, B. HEMONNOT, L. DANDOLO, C. E	
G. CATHALA. Turnover of primary transcripts is a major step in the regulation of mouse February expression EMBO Rep Aug 2002 774-779 3	119 gene
1510 HAMILTON, A., O. VOINNET, L. CHAPPELL and D. BAULCOMBE. Two classes of short	interfering
RNA in RNA silencing Embo J Sep 2 2002 4671-4679 21	
1520 LEE, Y., K. JEON, J. T. LEE, S. KIM and V. N. KIM. MicroRNA maturation: stepwise proc	essing and
subcellular localization Embo J Sep 2 2002 4663-4670 21	
1530 KLAHRE, U., P. CRETE, S. A. LEUENBERGER, V. A. IGLESIAS and F. MEINS, JR. High	
weight RNAs and small interfering RNAs induce systemic posttranscriptional gene silencir	ng in plants
Proc Natl Acad Sci U S A Sep 3 2002 11981-11986 99	· · · · ·
1540 PARK, W., J. LI, R. SONG, J. MESSING and X. CHEN. CARPEL FACTORY, a Dicer hon	
HEN1, a novel protein, act in microRNA metabolism in Arabidopsis thaliana Curr Biol Sep	p 3 2002 .
1484-1495 12	uman aandaal
1550 JIANG, M. and J. MILNER. Selective silencing of viral gene expression in HPV-positive https://orange.carcinoma.cells.treated.with.siRNA, a primer of RNA interference.Oncogene.Sep 5 200	
21	2 0041-0040
1560 MARTINEZ, J., A. PATKANIOWSKA, H. URLAUB, R. LUHRMANN and T. TUSCHL. Sing	ale-stranded
antisense siRNAs guide target RNA cleavage in RNAi Cell Sep 6 2002 563-574 110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1570 ALLSHIRE, R. Molecular biology. RNAi and heterochromatina hushed-up affair Science	Sep 13
2002 1818-1819 297	
1580 REINHART, B. J. and D. P. BARTEL. Small RNAs correspond to centromere heterochro	matic repeats
Science Sep 13 2002 1831 297	
1590 VOLPE, T. A., C. KIDNER, I. M. HALL, G. TENG, S. I. GREWAL and R. A. MARTIENSSE	
DS of heterochromatic silencing and histone H3 lysine-9 methylation by RNAi Science Sep 1	3 2002
[	

Examiner Signature:	/Dana Shin/	Date Considered:	10/23/2006

10/604,943

Filing Date First Inventor August 28, 2003 Itzhak Bentwich

Art Unit

1631

Examiner

Docket Number

MILLER, MARINA I 050992.0300.CPUS07

		NON PATENT LITERATURE DOCUMENTS
Examiner		
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
DS	1600	BAULCOMBE, D. DNA events. An RNA microcosm Science Sep 20 2002 2002-2003 297
	1610	LLAVE, C., Z. XIE, K. D. KASSCHAU and J. C. CARRINGTON. Cleavage of Scarecrow-like mRNA
		targets directed by a class of Arabidopsis miRNA Science Sep 20 2002 2053-2056 297
	1620	MOCHIZUKI, K., N. A. FINE, T. FUJISAWA and M. A. GOROVSKY. Analysis of a piwi-related gene
		implicates small RNAs in genome rearrangement in tetrahymena Cell Sep 20 2002 689-699 110
	1630	HUTVAGNER, G. and P. D. ZAMORE. A microRNA in a multiple-turnover RNAi enzyme complex
		Science Sep 20 2002 2056-2060 297
	1640	COBURN, G. A. and B. R. CULLEN. Potent and specific inhibition of human immunodeficiency virus
		type 1 replication by RNA interference J Virol Sep 2002 9225-9231 76
	1650	CAUDY, A. A., M. MYERS, G. J. HANNON and S. M. HAMMOND. Fragile X-related protein and VIG
	1000	associate with the RNA interference machinery Genes Dev Oct 1 2002 2491-2496 16
	1660	ISHIZUKA, A., M. C. SIOMI and H. SIOMI. A Drosophila fragile X protein interacts with components of RNAi and ribosomal proteins. Genes Dev. Oct 1 2002 2497-2508 16
	1670	VOINNET, O. RNA silencing: small RNAs as ubiquitous regulators of gene expression. Curr Opin Plan
	1070	Biol Oct 2002 444-451 5
+	1680	GOLDEN, T. A., S. E. SCHAUER, J. D. LANG, S. PIEN, A. R. MUSHEGIAN, U. GROSSNIKLAUS, D.
	1000	W. MEINKE and A. RAY. SHORT INTEGUMENTS1/SUSPENSOR1/CARPEL FACTORY, a Dicer
		homolog, is a maternal effect gene required for embryo development in Arabidopsis Plant Physiol Oct
		2002 808-822 130
	1690	MERKLE, I., M. J. VAN OOIJ, F. J. VAN KUPPEVELD, D. H. GLAUDEMANS, J. M. GALAMA, A.
		HENKE, R. ZELL and W. J. MELCHERS. Biological significance of a human enterovirus B-specific RN
		element in the 3' nontranslated region J Virol Oct 2002 9900-9909 76
	1700	FROEYEN, M. and P. HERDEWIJN. RNA as a target for drug design, the example of Tat-TAR
		interaction Curr Top Med Chem Oct 2002 1123-1145 2
	1710	CARMELL, M. A., Z. XUAN, M. Q. ZHANG and G. J. HANNON. The Argonaute family: tentacles that
		reach into RNAi, developmental control, stem cell maintenance, and tumorigenesis Genes Dev Nov 1
		2002 2733-2742 16
	1720	PROVOST, P., D. DISHART, J. DOUCET, D. FRENDEWEY, B. SAMUELSSON and O. RADMARK.
	·	Ribonuclease activity and RNA binding of recombinant human Dicer Embo J Nov 1 2002 5864-5874
-	1700	21
	1730	ZHANG, H., F. A. KOLB, V. BRONDANI, E. BILLY and W. FILIPOWICZ. Human Dicer preferentially cleaves dsRNAs at their termini without a requirement for ATP Embo J Nov 1 2002 5875-5885 21
		Icleaves distrivas at their termini without a requirement for ATP Embo 3 Nov 1 2002 5675-5665 21
	1740	MALLORY, A. C., B. J. REINHART, D. BARTEL, V. B. VANCE and L. H. BOWMAN. A viral suppressor
	1740	of RNA silencing differentially regulates the accumulation of short interfering RNAs and micro-RNAs in
		tobacco Proc Natl Acad Sci U S A Nov 12 2002 15228-15233 99
<u> </u>	1750	GOTTESMAN, S. Stealth regulation: biological circuits with small RNA switches Genes Dev Nov 15
		2002 2829-2842 16
<del></del>	1760	CALIN, G. A., C. D. DUMITRU, M. SHIMIZU, R. BICHI, S. ZUPO, E. NOCH, H. ALDLER, S. RATTAN,
		M. KEATING, K. RAI, L. RASSENTI, T. KIPPS, M. NEGRINI, F. BULLRICH and C. M. CROCE.
	•	Frequent deletions and down-regulation of micro- RNA genes miR15 and miR16 at 13q14 in chronic
		lymphocytic leukemia Proc Natl Acad Sci U S A Nov 26 2002 15524-15529 99
1	1770	GAUDILLIERE, B., Y. SHI and A. BONNI. RNA interference reveals a requirement for myocyte
DS	🗸	enhancer factor 2A in activity-dependent neuronal survival J Biol Chem Nov 29 2002 46442-46446
פע		277

Examiner Signature:	/Dana Shin/	Date Considered:	10/23/2006

Filing Date First Inventor 10/604,943 August 28, 2003 Itzhak Bentwich

Art Unit

1631

Examiner Docket Number MILLER, MARINA I 050992.0300.CPUS07

r		NON PATENT LITERATURE DOCUMENTS
Examiner		NON PATENT LITERATURE DOCUMENTS
	Oita Na#	Authora Title Javenel Date Veer Bores Veluma
Initials	Cite No#	Authors, Title, Journal, Date, Year, Pages, Volume
DS	1780	JONES, L. Revealing micro-RNAs in plants Trends Plant Sci Nov 2002 473-475 7
	1790	SCHAUER, S. E., S. E. JACOBSEN, D. W. MEINKE and A. RAY. DICER-LIKE1: blind men and
ļ <u>ļ</u>	1000	elephants in Arabidopsis development Trends Plant Sci Nov 2002 487-491 7
	1800	OKAZAKI, Y., M. FURUNO, T. KASUKAWA, J. ADACHI, H. BONO, S. KONDO, et al. Analysis of the
		mouse transcriptome based on functional annotation of 60,770 full-length cDNAs Nature Dec 5 2002
ļ <b>.</b>	1010	563-573 420
	1810	DENNIS, C. Small RNAs: the genome's guiding hand? Nature Dec 19-26 2002 732 420
	1820	UCHIDA, N., S. HOSHINO, H. IMATAKA, N. SONENBERG and T. KATADA. A novel role of the
		mammalian GSPT/eRF3 associating with poly(A)-binding protein in Cap/Poly(A)-dependent translation
ļ		J Biol Chem Dec 27 2002 50286-50292 277
	1830	HUTTENHOFER, A., J. BROSIUS and J. P. BACHELLERIE. RNomics: identification and function of
	10.10	small, non-messenger RNAs Curr Opin Chem Biol Dec 2002 835-843 6
	1840	WOOD, N. T. Unravelling the molecular basis of viral suppression of PTGS Trends Plant Sci 2002
ļļ		384 7
	1850	COHEN, O., C. ERB, D. GINZBERG, Y. POLLAK, S. SEIDMAN, S. SHOHAM, R. YIRMIYA and H.
	•	SOREQ. Neuronal overexpression of "readthrough" acetylcholinesterase is associated with antisense-
		suppressible behavioral impairments Mol Psychiatry ***No date in pubmed*** 2002 874-885 7
	1000	MI OTOLINA O O MOINNET M. E METTE M. MATZIZE II MAUGUEDET O M. DING C. DDUCC
	1860	MLOTSHWA, S., O. VOINNET, M. F. METTE, M. MATZKE, H. VAUCHERET, S. W. DING, G. PRUSS
		and V. B. VANCE. RNA silencing and the mobile silencing signal Plant Cell ***No date in pubmed***
<u> </u>	4070	2002 S289-301 14 Suppl
	1870	TANG, G., B. J. REINHART, D. P. BARTEL and P. D. ZAMORE. A biochemical framework for RNA
<b> </b>	1000	silencing in plants Genes Dev Jan 1 2003 49-63 17  KAWASAKI, H. and K. TAIRA. Short hairpin type of dsRNAs that are controlled by tRNA(Val) promoter
	1880	significantly induce RNAi-mediated gene silencing in the cytoplasm of human cells. Nucleic Acids Res
		Jan 15 2003 700-707 31
ļ — <u> </u>	1890	ASHRAFI, K., F. Y. CHANG, J. L. WATTS, A. G. FRASER, R. S. KAMATH, J. AHRINGER and G.
	1090	RUVKUN. Genome-wide RNAi analysis of Caenorhabditis elegans fat regulatory genes Nature Jan 16
		2003 268-272 421
	1900	KAMATH, R. S., A. G. FRASER, Y. DONG, G. POULIN, R. DURBIN, M. GOTTA, A. KANAPIN, N. LE
	1900	BOT, S. MORENO, M. SOHRMANN, D. P. WELCHMAN, P. ZIPPERLEN and J. AHRINGER.
		Systematic functional analysis of the Caenorhabditis elegans genome using RNAi Nature Jan 16
		2003 231-237 421
	1910	TUSCHL, T. Functional genomics: RNA sets the standard Nature Jan 16 2003 220-221 421
	1930	SHI, Y. Mammalian RNAi for the masses Trends Genet Jan 2003 9-12 19
	1940	CERUTTI, H. RNA interference: traveling in the cell and gaining functions? Trends Genet Jan 2003
	1340	39-46 19
•	1950	ZENG, Y. and B. R. CULLEN. Sequence requirements for micro RNA processing and function in
DS	1900	human cells Rna Jan 2003 112-123 9
	2980	KONFORTI, B. The news and you Nat Struct Biol 2003 147-10
	2940	STEIN, T. D. and J. A. JOHNSON. Genetic programming by the proteolytic fragments of the amyloid
DS	20-10	precursor protein: somewhere between confusion and clarity. Rev Neurosci. ***no date in pubmed***
		2003 317-341 14
	2950	SZYMANSKI, M., M. Z. BARCISZEWSKA, M. ZYWICKI and J. BARCISZEWSKI. Noncoding RNA
DS		transcripts J Appl Genet ***NO DATEIN PUBMED*** 2003 1-19 44
		Presidential a Library and Control to Division From 1 to 44

Examiner Signature:	/Dana Shin/	Date Considered:	10/23/2006	